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	Application No.	Applicant(s)
	09/868,577	KAWASAKI, KIYOHIRO
Notice of Allowability	Examiner	Art Unit
	Brian L. Mutschler	1753
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not included n will be mailed in due course. THIS
1. $igwedge$ This communication is responsive to <u>supplemental amend</u>	ment filed 24 September 2004.	
2. The allowed claim(s) is/are 3-12 and 21.		
3. The drawings filed on 25 February 2004 are accepted by the	ne Examiner.	
4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have		<u> </u>
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Copies of the certified copies of the priority documents have	· · · · · · · · · · · · · · · · · · ·	
International Bureau (PCT Rule 17.2(a)).	cuments have been received in this	national stage application from the
* Certified copies not received:	naturalista. Magazina	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply IENT of this application.	complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAMINER' es reason(s) why the oath or declara	S AMENDMENT or NOTICE OF tion is deficient.
6. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.	
(a) ☐ including changes required by the Notice of Draftspers		948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date		•
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the O	ffice action of
ldentifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in t	84(c)) should be written on the drawing header according to 37 CFR 1.121(c	gs in the front (not the back) of
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I	sit of BIOLOGICAL MATERIAL n	nust be submitted. Note the
Attachment(s)	5 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
1. Notice of References Cited (PTO-892)	_	atent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6.	(PTO-413),
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0-Paper No./Mail Date	8), 7. Examiner's Amendm	nent/Comment
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	nt of Reasons for Allowance

of Biological Material

9. Other _____.

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REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

The instant invention is distinguished over the prior art of record by providing a system and process for detecting pinholes in a an active substrate requiring the combination including an electrode covered with an insulating layer, a reversed polarity electrode plate, chemical solution confining means for confining the chemical solution to a specified region of the substrate, and chemical solution supplying and discharging means for supplying and discharging the chemical solution to and from the substrate. In another embodiment (claim 12), the process requires a frame-shaped container having a flexible sealing material around the open of one end. The prior art of record neither teaches nor suggests the combination of elements recited in the instant claims.

Wood discloses an apparatus and method for detecting pinholes in a substrate comprising chemical solution confining means for confining the chemical solution to a specified location (see US '795 at Figures 2 and 4). However, unlike the instant invention, the apparatus and process disclosed by Wood relies upon capillary action to confine the chemical solution. Capillary action requires small amounts of liquid and closely spaced features. In addition, capillary action would not work with the claimed supply and discharge means because such means would more than likely overcome the capillary forces required to control and confine the liquid solution. Regarding the embodiment recited in claim 12, the confinement means disclosed by Wood do not have sealing material because they do physically contact the substrate. Since it would not be possible to use a supplying and discharging means in the apparatus of Wood, one

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skilled in the art would not have been motivated to make such a modification. Similarly, a frame-shaped container with a flexible sealing material around the opening would defeat Wood's intended use of the apparatus by preventing confinement by capillary action.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian L. Mutschler whose telephone number is (571) 272-1341. The examiner can normally be reached on Monday-Friday from 7:30am to 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam Nguyen can be reached on (571) 272-1342. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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BLM

September 30, 2004

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